2004 Traffic Engineering Conference

Asheville, NC

Gary C. Faulkner NCDOT (Retired)



- Training contracted through ITRE/NCSU
- Training began early February 2004
- Initial training completed late June 2004
- 14 sessions conducted statewide

- Training set up to train NCDOT staff, local government staff and private sector involved in the driveway process
- 282 NCDOT staff trained
- 45 local and private sector staff trained
- A total of 327 attendees trained

Training Content

- Introduction
- Major changes
- Manual overview
- Trip Generation/Traffic Impact Study
- Case studies/examples

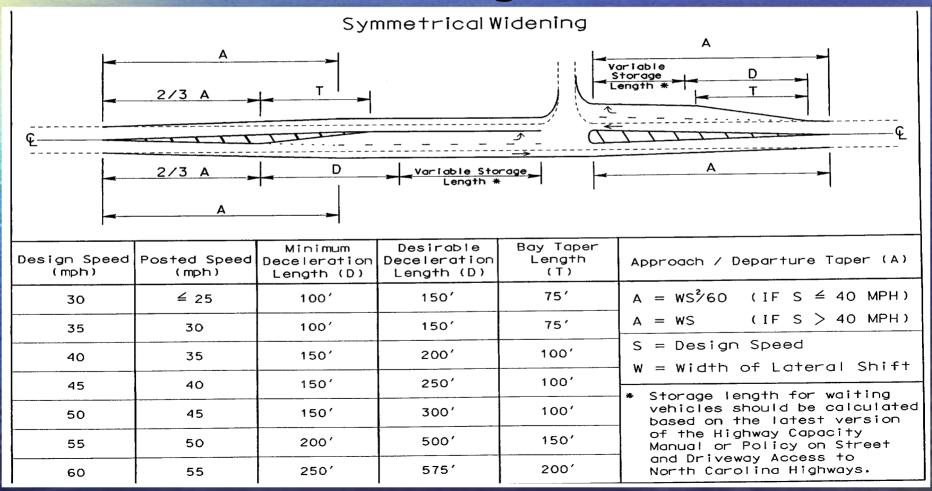
Major Changes

- Concurrent/coordinated review by government agencies
- Traffic Impact Study Requirement
- Major review threshold (15,000 vpd)
- Applicant appeals process

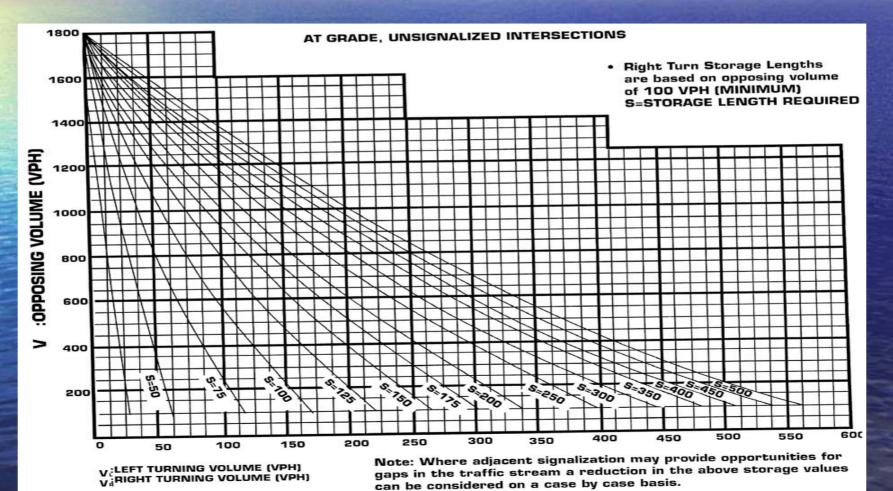
Major Changes Continued...

- Right of Way condemnation
- Access restriction/denial
- School review issues
- Construction resurfacing requirement
- Off site improvements

Driveway Training Turn Lane Design/warrant



Driveway Training Turn Lane Design/Warrant cont...



Trip Generation

- Trip Generation establishes vehicle trip estimates
- Vehicle trip estimate used to determine TIS requirement, major review requirement, improvements needed, etc...
- District Office responsible for determining if application will require a TIS

Traffic Impact Study (TIS)

- Detailed study of traffic impacts to the adjacent highway system
- Defines areas of poor operations and suggests mitigation measures
- Used to determine facility level of service and possible safety issues

Case Studies

- Small residential subdivision
- Small commercial development
- Large regional development (Concord Mills mall)
- Large mixed use development (Meadowmont development)

Participant Evaluations

- Overall training effectiveness rated 4.3 out of 5
- Instruction rated 4.3 out of 5
- Training material rated 4.4 out of 5
- Course content rated 4.3 out of 5

Recommendations

- Make training available to more local government staff and the private sector
- Provide training to central office staff (Planning, Roadway Design, Traffic Engineering, Right of Way Branch, Construction staff, etc...)
- Setup schedule for recurrent training (new staff, refresher training, special needs, etc..)
- Consider developing short sessions geared directly toward specific Branch needs (Right of Way, Roadway Design, Planning, Resident Engineers, etc..)

Stress Test

Review the following picture of two dolphins. They are identical. Any slight variation noticed between the two dolphins is an indicator that you may be under some stress. The greater the difference noticed, the greater the stress you are under.



